Exercise 2.3

1. a) f(0) = 1/0 which is not defined.

7. a) The domain would be Z+ x Z+

9. a) Rounds up to the next integer of ¾,so it is 1.

Exercise 2.4

1. an = 2 \* (-3)n + 5n

a) a0 = 2 \* (-3)0 + 50 = 2 \* 1 + 1 = 2

b) a1 = 2 \* (-3)1 + 51 = 2 \* -3 + 5 = -6 + 5 = -1

c) a4 = 2 \* (-3)4 + 54 = 2 \* 81 + 625 = 162 + 625 = 787

3.

a) 2n + 1?

a0 = 20 + 1 = 1 + 1 = 2

a1 = 21 + 1 = 2 + 1 = 3

a2 = 22 + 1 = 4 + 1 = 5

a3 = 23 + 1 = 8 + 1 = 9